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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant (s): Joseph G. Birmingham

Serial No.: 10/805,869

Group Art Unit: Unknown

Filed: March 22, 2004

Examiner: Unknown

For: MICROIMPACTOR SYSTEM FOR COLLECTION OF PARTICLES FROM A FLUID STREAM

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE, WITH SUFFICIENT POSTAGE, AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO: COMMISSIONER OF PATENTS AND TRADEMARKS On: June 9, 2004 By: _____ Gary C. Cohn June 9, 2004	
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Hon. Commissioner of Patents & Trademarks

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to Applicant's duty of disclosure under 37 CFR §1.56, the Examiner's attention is directed to the information identified in the attached Form PTO 1449. A copy of all cited patents and printed publications is enclosed.

☒ This paper is being filed before the latest of (a) three months after the filing date (if a national application), (b) three months after the date of entry of the national stage (if an international application) (c) before the date of mailing of the first action on the merits or (d) before the mailing of a first office action after the filing of a request for continued examination under 37 CFR §1.114.

☐ Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this information disclosure statement.

☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign

application, and, to the knowledge of the undersigned, no item of information contained in this information disclosure statement was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this information disclosure statement.

- ☐ The fee set forth in 37 CFR §1.17(p) is enclosed.
- ☐ A petition requesting consideration of this information disclosure statement is enclosed.
- ☐ The petition fee set forth in 37 CFR §1.17(i) is enclosed.

The Examiner is requested to review each reference and formulate his or her own understanding thereof.

Respectfully submitted,
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PTO/SB/08A (04-03)

Approved for use through 04/30/2003. OMB 0651-0031

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 2

Complete if Known

Application Number	10/805,869
Filing Date	March 22, 2004
First Named Inventor	Joseph Gerard Birmingham
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	MET 005

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 6,062,392	05-16-2000	Birmingham et al.	
		US- 6,110,247	08-29-2000	Birmingham et al.	
		US- 6,156,212	12-05-2000	Rader et al.	
		US- 6,270,558 B1	08-07-2001	Theiler	
		US- 6,432,630 B1	08-13-2002	Blankenstein	
		US- 6,465,225 B1	10-15-2002	Fuhr et al.	
		US- 6,467,630 B1	10-22-2002	Zborowski et al.	
		US- 6,488,900 B1	12-03-2002	Call et al.	
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ³
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner
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Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	MET 005

Sheet 2 of 2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"Generating Particle Beams of Controlled Dimensions and Divergence: I. Theory of Particle Motion in Aerodynamic Lenses and Nozzle Expansions", Aerosol Science and Technology, Vol. 22, No. 3, pp. 293-313 (1995).	
		"Generating Particle Beams of Controlled Dimensions and Divergence: II. Experimental Evaluation of Particle Motion in Aerodynamic Lenses and Nozzle Expansions", Aerosol Science and Technology, Vol. 22, No. 3, pp. 314-324 (1995).	
		"Virtual Impactors: A Theoretical Study", Environmental Science & Technology, Vol. 14, No. 8, pp.976-985 (1980)	

Examiner
SignatureDate
Considered

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